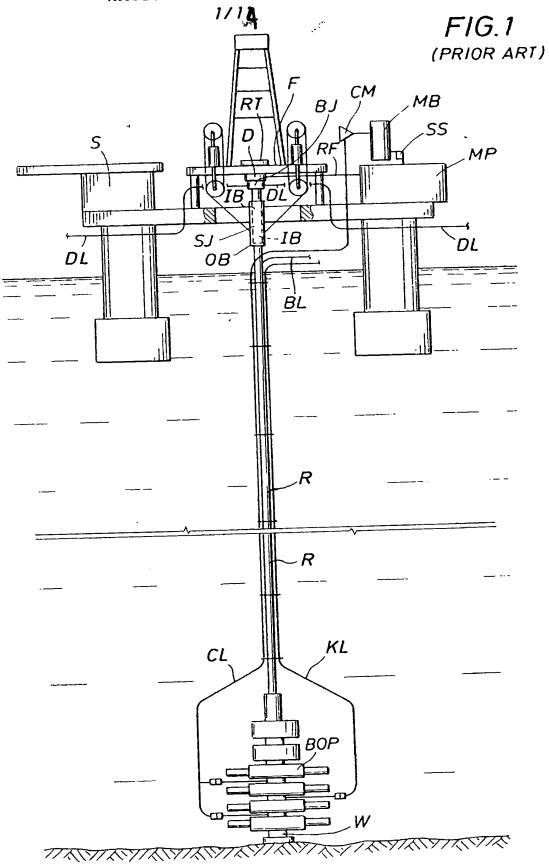
TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER

Don M. Hannegan INVENTOR:

+

SERIAL NO.: Unknown ATTY DOCKET #: H055010.0048US0



TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER Don M. Hannegan INVENTOR: SERIAL NO.: Unknown ATTY DOCKET #: H055010.0048US0 2/14 + FIG.1A (PRIOR ART) RF B-B D. DĹ SH BJ

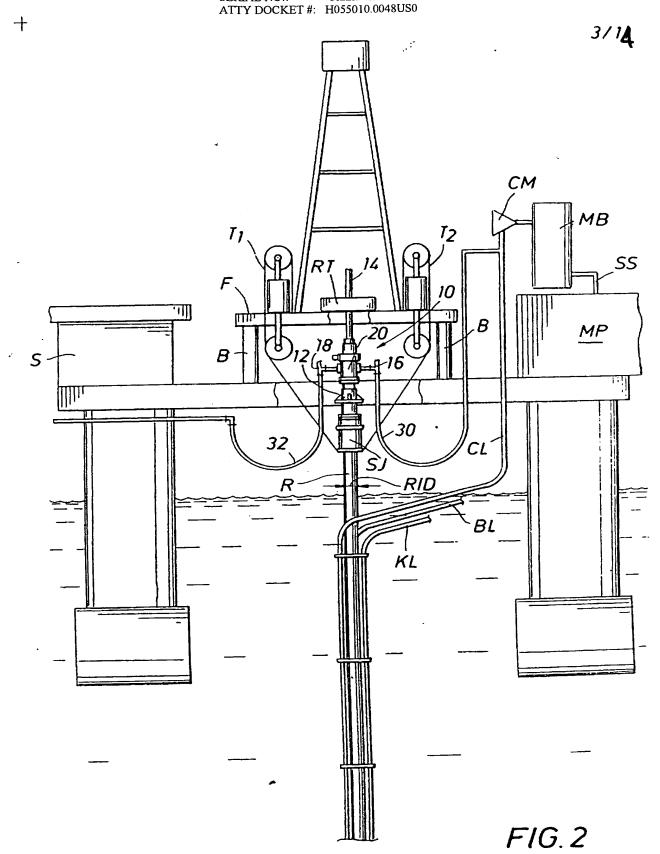
TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER

INVENTOR:

Don M. Hannegan

SERIAL NO.:

Unknown

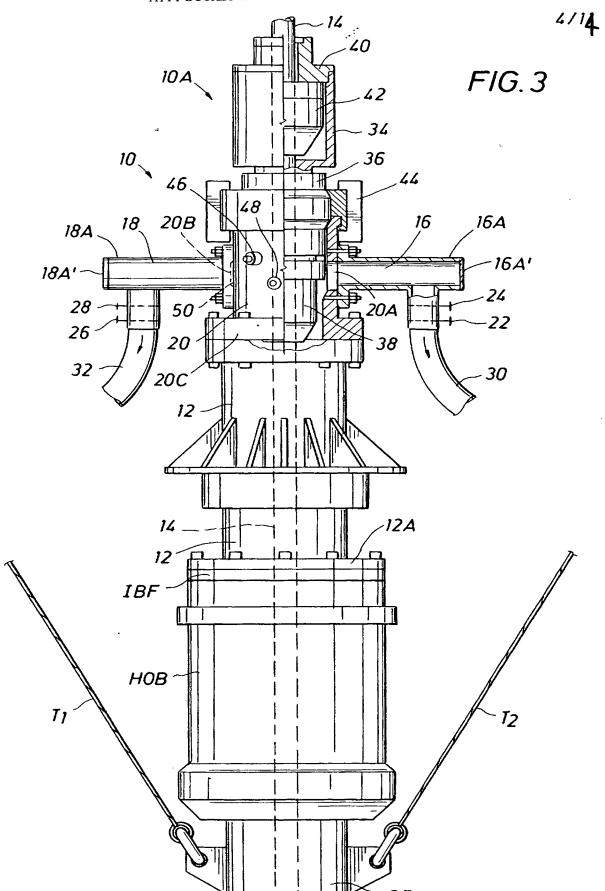


METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER INVENTOR: Don M. Hannegan

Unknown SERIAL NO.:

+

ATTY DOCKET #: H055010.0048US0



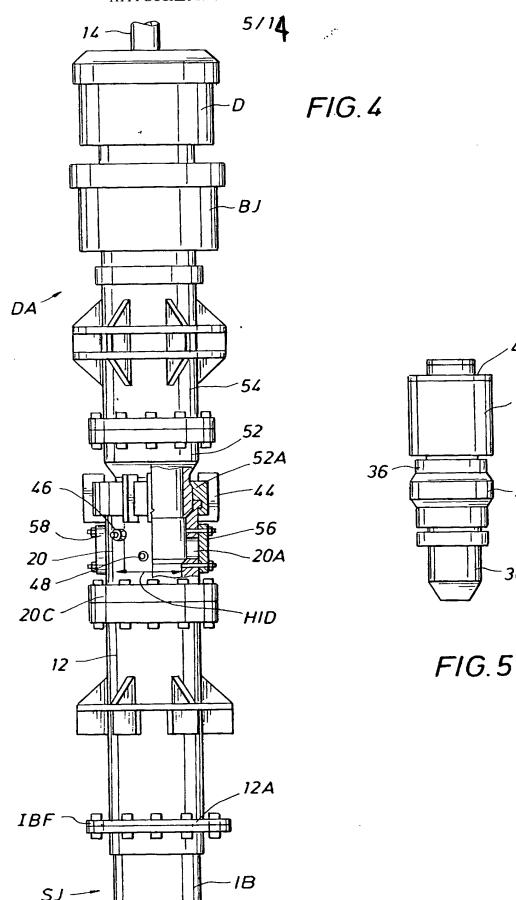
TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER

INVENTOR:

+

Don M. Hannegan

SERIAL NO.: Unknown ATTY DOCKET #: H055010.0048US0



40

34

36A

38

10A

TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER DAY HOLDER OF THE PROPERTY OF

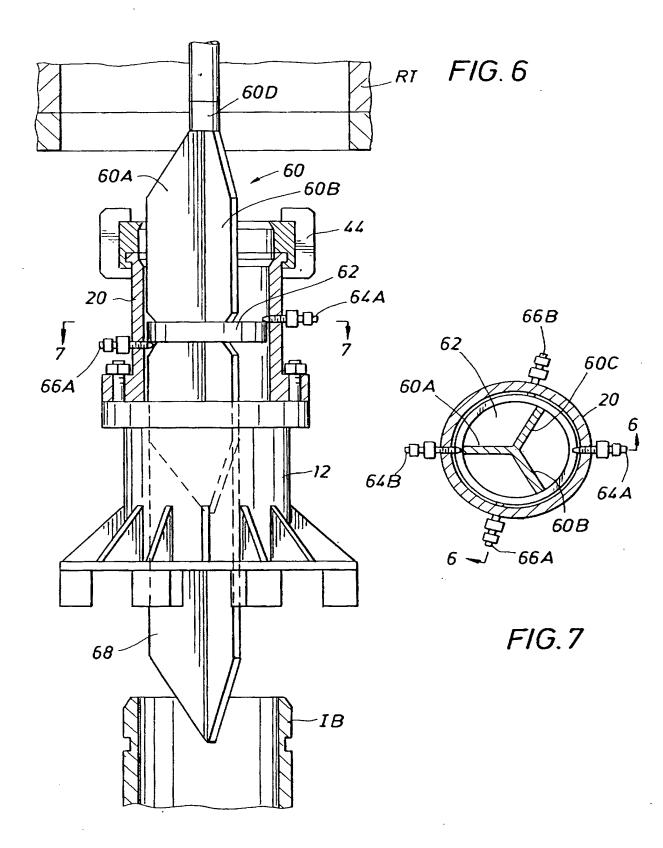
1

INVENTOR: SERIAL NO.: Don M. Hannegan

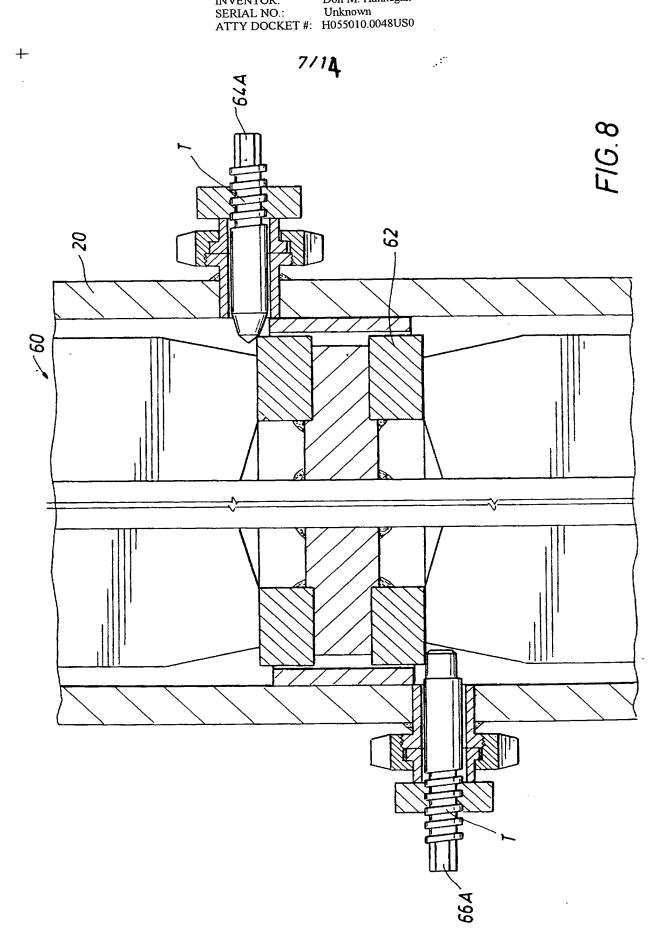
SERIAL NO.: Unknown ATTY DOCKET #: H055010.0048US0

6/14

3



TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER INVENTOR: Don M. Hannegan



ATTY DOCKET #: H055010.0048US0 + 8/14 —MAX HOOK LOAD - ECENTRIC RUNNING 100L —MAX HOOK LOAD - TAPERED PINS —MAX PIN LOAD - FULLY ECENTRIC RUNNING 100L WITHOUT CENTERING BLOCKS —WORSE CASE INNER BARREL WEIGHT 193/4 191/2 RUNNING TOOL OUTER DIAMETER (in) 22. 25 INCH ID BOWL WITH 1.156" CENTERING BLOCKS -- MOSI LIKELY INNER BARREL WEIGHT 1.5 INCH MINIMUM PIN TAPER DIAMETER 7/61 40,000 psi YIELD STRENGTH IN MATERIAL 183/1 **₽** 30 25 20 2 15 35 MAXIMUM HOOK LOAD (k-lbs)

METHOD FOR PRESSURIZED

Don M. Hannegan

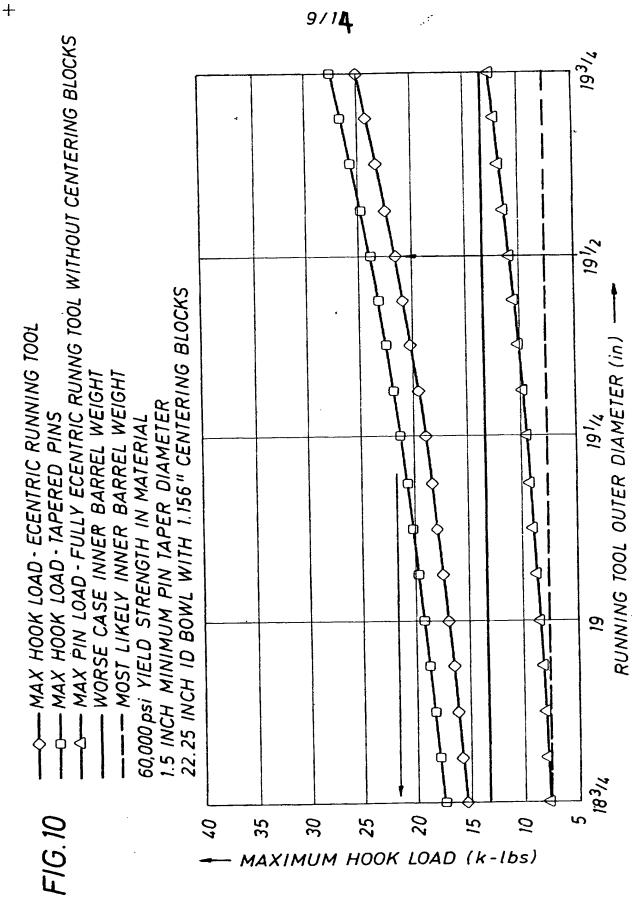
Unknown

MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG

USING A SEALED MARINE RISER

TITLE:

INVENTOR: SERIAL NO.: TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER INVENTOR: Don M. Hannegan SERIAL NO.: Unknown ATTY DOCKET #: H055010.0048US0

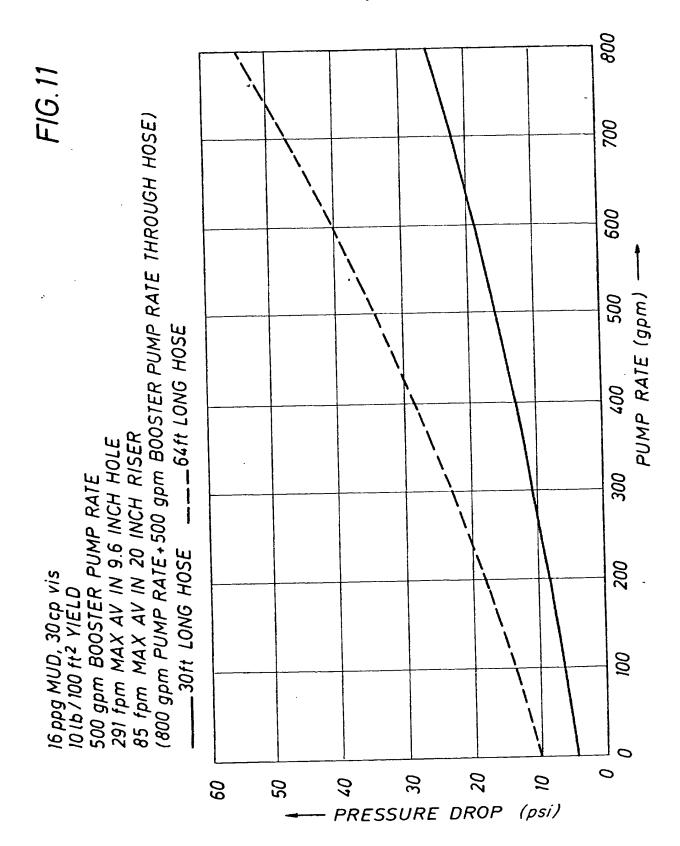


TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER INVENTOR: Don M. Hannegan

INVENTOR: Don M. Ha SERIAL NO.: Unknown

ATTY DOCKET #: H055010.0048US0

10/14



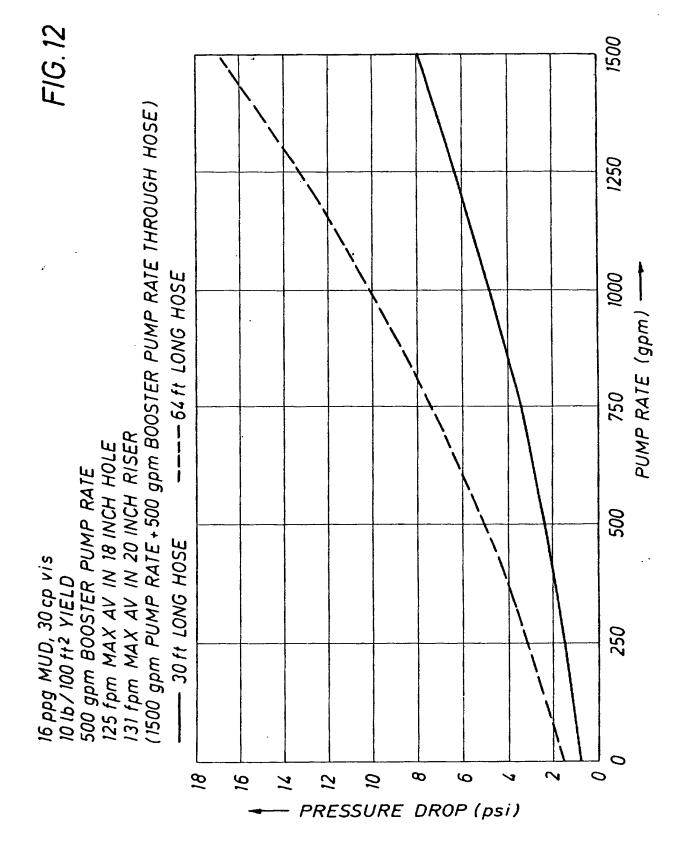
TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER

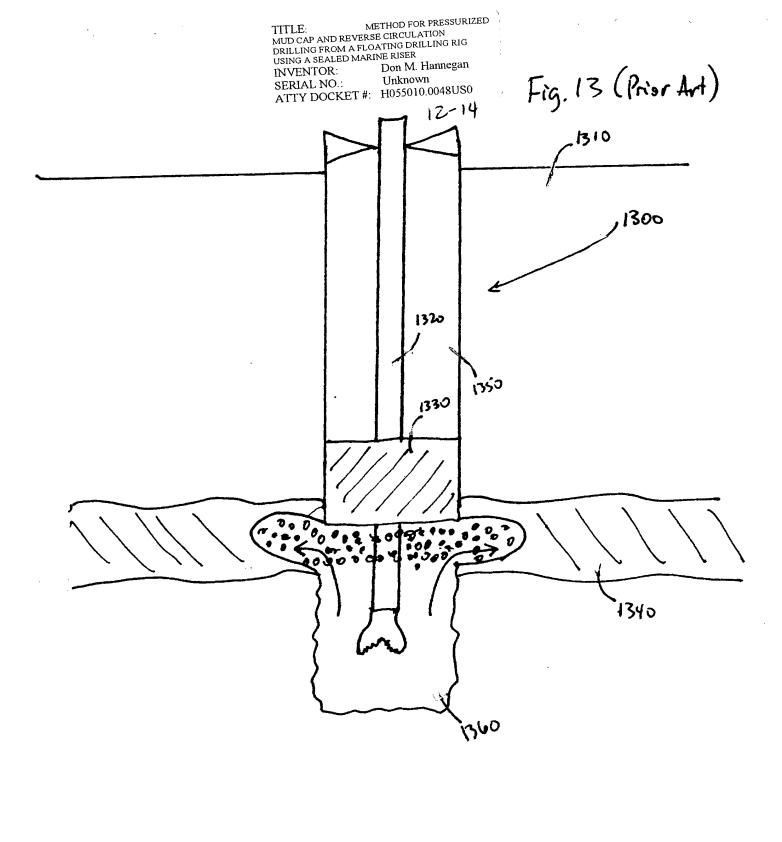
Don M. Hannegan INVENTOR: SERIAL NO .: Unknown ATTY DOCKET #: H055010.0048US0

11/14



+





TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER INVENTOR: Don M. Hannegan SERIAL NO.: Unknown ATTY DOCKET #: H055010.0048US0 13/14 Fig.14 MP 1330 1360

TITLE: METHOD FOR PRESSURIZED MUD CAP AND REVERSE CIRCULATION DRILLING FROM A FLOATING DRILLING RIG USING A SEALED MARINE RISER DATE OF THE PROPERTY OF THE PR Don M. Hannegan INVENTOR: SERIAL NO.: Unknown ATTY DOCKET #: H055010.0048US0 Fig. 15 14/14 .1510 1520 1530